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(54) CATALASE LABELED IMINOglobULIN FAB' FRAGMENT

(57) Abstract:

PURPOSE: To contrive determination of an organism component of high sensitivity by generating, reaction of an iminoglobulin Fab' fragment after reaction of maleimide carboxylic acid N-hydroxy succinimide ester, expressed by a specific formula, with catalase.

CONSTITUTION: Catalase labeled Fab', in which catalase of introducing a maleimide group is obtained by reaction of maleimide carboxylic acid N-hydroxy succinimide ester, expressed by a formula (R: divalent residual group of fatty acid or aromatic), with the catalase, is obtained next by reaction of this catalase

with an iminoglobulin Fab' fragment. The catalase is preferable animal hepatic oil, and R of the divalent residual group uses a divalent residual group or the like of aromatic hydrocarbon of  $-\text{CH}_2\text{CH}_2\text{CH}_2-$ , etc. The iminoglobulin Fab' fragment uses a product obtained by performing a reducing process of S-S binding through pepsin treatment by the normal method of polychloral antibody or monochloral antibody, for instance, obtained by antihomo  $\alpha_1$ -acid glycoprotein antibody or the like.

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